Public Works (1905) Department.

G.O., No. 4187 / 4193. I

DATED 3rd May 1905

Proof

90/3 copies of G.O.

22/2 copies of Estt. with lechecked at the back of the G.O.

30 copies of Estt. for record

5/5/05

[Despatch Abstract.]

Distributary channel from the 4th Branch channel, Periyar Project.

An estimate, amounting to Rs 1786, for regrading a ———, sanctioned and a copy of the Pro: ordered to be forwarded to the G. of I.

Distributary channel from the 4th Branch channel, Periyar Project.

Forwarding a copy of the Pro: sanctioning an estimate, amounting to Rs 1786, for regrading a ———

Indexed.

[illegible] 4/5/05 [illegible] 4/5

BACK PAPERS

No.	Department.	Date.	G.O.	No.

செப்பனிடுபவர் பெயர் [illegible]

செப்பனிடுவதற்காக எடுத்துக்-
கொள்ளப்பட்ட நாள் 3/2003

செப்பனிட்டு முடித்த நாள் : 5/2003

[signature]	[signature] 22-5-03	[signature] 6/03
சரிபார்க்கும் முதல் மு.பா.எ. கையொப்பம்	சரிபார்க்கும் இரண்டாம் மு.பா.எ. கையொப்பம்	ஆராய்ச்சி உதவியாளர் கையொப்பம்

IRRIGATION.
ACCOUNT.

Government {1905} of Madras.

PUBLIC WORKS.

2S

Recd. } 1905. *Enclosures*

Regd. *Spare copies*

G.O., Nos. 418, 419 I., 3rd May 1905.

MAY.

Distributary channel in the 4th Branch channel, Periyar Project

Forwarding a copy of the Proceedings sanctioning an estimate, amounting to Rs. 1,786, for regrading a —.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

Read—the following papers:—

From the Superintending Engineer, VI Circle, dated 24th March 1905, No. 220 C.E.

Enclosures.

Report to accompany the estimate for regrading the distributary from right sluice above drop No. 4 in the 4th Branch channel.

	RS.
Amount of estimate	1,530

The ayacut under the right sluice of drop No. 4 is 390 acres and its ventway is inadequate for irrigating the ayacut. A field channel for a length of about 3,000 feet was originally excavated but water could not be regulated in this channel properly owing to innumerable cuts in the channel banks with the result that the lands at the tail end could not get a fair supply. The field channel is therefore proposed to be improved as noted below so as to ensure adequate supply to all its ayacuts:—

(*a*) The ventway of the sluice ($1' \times 1\frac{1}{2}'$) supplying the distributary will be increased to $2\frac{1}{4}' \times 1\frac{1}{2}'$.

(*b*) The channel will be widened and improved and maintained up to 3,000 feet from the sluice.

(*c*) Instead of open cuts in banks, pipe sluices will be constructed so that water may be regulated successfully.

(*d*) The distributary intercepts a drainage area of 1·40 square miles and 2 outlets are proposed to be built at 1,300 feet and 1,800 feet so as to pass the surplus water entering the distributary during heavy rains.

(*e*) The existing regulator at 150 feet will be improved as per plan herewith.

(*f*) A tail drop will be built at 3,000 feet to prevent the bed from scouring.

(*g*) Provision is made for the lands required to be acquired for improving the distributary.

The work will be carried out in accordance with the current departmental standard specifications.

Estimate Form—Abstract—Classified.

Sub-head.	Names of works.	Amount of estimate for individual works.	Total of sub-heads.	Total for each canal or distributary.	Total of each main-head.
1	2	3	4	5	6
	IMPERIAL.	RS.	RS.	RS.	RS.
	CAPITAL EXPENDITURE NOT CHARGED TO REVENUE.				
	49. Irrigation.				
	Periyár Project.				
	Open Capital Account.				
	I. Works.				
	3. Distributaries.				
	Unremunerative work.				
	Regrading the distributary from right sluice above drop No. 4 in the 4th Branch channel.				
B. Land ..	Compensation for mamool wet lands	290			
	Wet lands from dry	128	418		
C. Works ..	1. Enlarging the ventway of right sluice of drop No. 4 in the 4th Branch channel	90			
	2. Improvements to the existing regulator at 150 feet in the distributary.				
	i. Constructing a drop of 2 feet .. RS. 85				
	ii. Providing locking arrangements to the vent in the south 23	108			
	3. Constructing outlet No. 1 at 1,300 feet in left bank	92			
	4. Constructing outlet No. II at 1,800 feet in left bank	205			
	5. Constructing 12″ pipe sluice at 2,200 feet ..	64			
	6. Constructing a 9″ pipe sluice at 2,500 feet in left bank	55			
	7. Constructing a 9″ pipe sluice at 2,500 feet in right bank	55			
	8. Constructing a tail drop of 1 foot at 3,000′ ..	60	729		
L. Earthwork ..	Cutting and forming banks	360	360		
O. Miscellaneous ..	Demarcation stones	23	23	1,530	
	Total I. Works ..	..	..	..	1,530
	II. Establishment ..	..	..	..	256
	Grand total ..	..	..	..	1,786

(Signed) A. V. RAMALINGA AIYAR,
Executive Engineer, Madura Division.

Note by the Chief Engineer for Irrigation.

The Superintending Engineer, VI Circle, submits an estimate amounting to Rs. 1,530 for regrading the distributary channel which takes off from the sluice on the right side above drop No. 4 in the 4th Branch channel, Periyár project. It is reported that the ventway of the above sluice is insufficient for irrigating its ayacut of 390 acres and that there are many open cuts in the channel. In the absence therefore of proper means of regulation, the lands at the tail end do not receive an adequate supply. The proposed improvements include—

(1) Increasing the ventway of the sluice from $1' \times 1\frac{1}{2}'$ to $2\frac{1}{4}' \times 1\frac{1}{2}'$.

(2) Widening the channel up to 3,000 feet from the sluice.

(3) Substituting pipe sluices for the existing open cuts.

(4) Constructing 2 outlets at 1,300 and 1,800 feet of the channel.

(5) Improving the existing regulator in the field channel at 150 feet and providing the channel with a tail drop in order to prevent the bed from scouring.

The estimate may be sanctioned.

2. The work is classed as "unremunerative" and will probably be completed by the 31st March 1906.

(Signed) A. H. GARRETT,
Chief Engineer for Irrigation.

27th April 1905.

Order—No. 418 I., dated 3rd May 1905.

The estimate, amounting to Rs. 1,786 including the charge for establishment for regrading the distributary channel taking off from the sluice on the right side above drop No. 4 in the 4th Branch channel, Periyár project, is sanctioned.

2. This sanction is registered as No. 11 I. of 1905–1906 and will expire on the 31st March 1906.

3. Ordered that a copy of these Proceedings be forwarded to the Government of India for information.

[Here enter No. 419 I., dated 3rd May 1905.]

(True Extract.)

(Signed) A. H. GARRETT,
Joint Secretary to Government,
Irrigation Branch.

To the Chief Engineer for Irrigation.
" Superintending Engineer, VI Circle,
with plans and estimate.
" Examiner, Public Works Accounts.

Endorsement—No. 419 I., dated 3rd May 1905.

Forwarded.

(By order.)

(Signed). A. H. GARRETT,
Joint Secretary to Government,
Irrigation Branch.

Exd. V. Ramachandra Rao.

10,000—7-10-01.

1

Public Works (1905.) Department.

CURRENT No. ~~1134~~ ~~4256~~

49

From

[Name] C. J. USSHER Esquire.,

[Designation] Superintending Engineer, VI Circle,

[Station] Trichinopoly.

No. 220 CF

Dated 24 March 1905.

Enclosures {*Plans* 11, *Others* 1} *Total.* 12

Spare copies

Received 27. 3. 1905.

Registered 30 1905.

Passed on, by—

Registering Clerk 2-5 1905.

U. R. Clerk 190 .

Referencer 190 .

Record Supdt. 190 .

Drafting Officer 190 .

SUBJECT.

Regarding the Distributary from Right sluice above Drop No 4 in the ... Branch channel. Submitting for sanction an estimate Rs 1530 for —

BACK PAPERS.

FURTHER PAPERS.

Phrel 4256/05

13/3/05

2

To

The ~~Secretary to Government~~ Chief Engineer, Public Works Department

For Irrigation,

MADRAS.

Sir,

I have the honor to forward for approval and sanction an estimate together with plans, amounting to Rs.1,530 for regrading the Distributary from right sluice above Drop No.4 in the 4th Branch Channel, Periyar Works.

2. The necessity for the work proposed is described in the report attached to the estimate. No increase in revenue is expected on the proposed outlay and the work is therefore classed as unremunerative and it may be expected to be completed by the end of March 1906.

I have the honor to be,

Sir,

Your most obedient servant,

[signature]

Superintending Engineer,

VI Circle.

Encl

1 Estimate

11 Tracings

12

P.V. 23-3-05

3 288

Report to accompany the Estimate for Regrading the Distributary from Right Sluice above Drop No. 4 in the 4th Branch channel.

CHIEF ENGR FOR IRRIGA
27 MAR 1905
No.........

Amount of Estimate Rs. ~~1,525.~~ 1530

58

The ayacut under the right Sluice of Drop No. 4. is 390 acres and its ventway is inadequate for irrigating the ayacut. A field channel for a length of about 3,000 feet was originally excavated but water could not be regulated in this channel properly owing to innumerable cuts in the Channel banks with the result that the lands at the tail end could not get a fair supply. The field channel is therefore proposed to be improved as noted below so as to ensure adequate supply to all its ayacut.

(a) The ventway of the Sluice (1'×1½') supplying the Distributary will be increased to 2¼'×1½'.

(b) The Channel will be widened and improved and maintained up to 3,000 feet from the Sluice.

(c). Instead of open cuts in banks, pipe sluices will be constructed so that water may be regulated successfully.

(d). The distributary intercepts a drainage area of 1.40. Sq. miles and 2 outlets are proposed to be built at 1,300 feet & 1,800 feet so as to pass the surplus water entering the distributary during heavy rains.

(e). The Existing regulator at 150 feet will be improved as per plan herewith

3

f). A Tail drop will be built at 3000 feet to prevent the bed from scouring.

(g). Provision is made for the lands required to be acquired for improving the Distributary.

The work will be carried out in accordance with the current departmental Standard Specifications.

J V Rush
Executive Engineer
Madura Division

S.A.V.

8/oe 2
42.58/05

ESTIMATE FORM.—Abstract— Classified. 3 Rs

Sub-head.	Names of Works.	Amount of Estimate for individual Works.	Total of Sub-heads.	Total for each Canal or Distributary.	Total of each Main head.	Remarks.
1	2	3	4	5	6	7
			6S			
	Imperial. Capital expenditure not charged to Revenue. 49. Irrigation. Periyar Project. Open capital account. 1. Works. 3 (Regrading the Distributary from Rt Sluice above Drop No 4 in the 4th Branch channel.) 3. Distributaries. Unremunerative work					6
1 B. Land	Compensation for manool wet lands.	290.				
	Wet lands from Dry.	128.				
			418.			
0. Miscellaneous 4	Demarcation stones.	23.				Note for press The items shd be printed in the order of their numbers. [initials]
			23			
3 1. Earthwork	Cutting & forming banks.	360				
			360			
2 C. Works.	1. Enlarging the ventway of Rt sluice of Drop No. 4 in the 4th Branch channel.	~~85~~ 90				
	2. Improvements to the existing regulator at 150' in the Dy:					
	i Constg: a Drop of 2 ft. Rs. ~~87~~ 85					
	ii Providing locking arrangements to the Vent in the south — Rs ~~22~~ 23	~~109~~ 108.				
	3 Constg: outlet No 1 at 1300 ft in L.B.	92				
	C. O.	~~286~~ 290	801			

STATION,

Dated 190

5,000—12-12-01.

Executive Engineer.

(E. No. 126.)

———— CIRCLE

DIVISION—

DISTRICT—

ESTIMATE FORM.—Abstract—Classified.

To accompany the Detailed Estimate No.

of 190 -190 for *

* Here enter the Name and Description of work in full.

ESTIMATE FORM.—Abstract—Classified.

7

4BR

Sub-head.	Names of Works.	Amount of Estimate for individual Works.	Total of Sub-heads.	Total for each Canal or Distributary.	Total of each Main head.	Remarks.
1	2	3	4	5	6	7
	Brought forward	~~286~~ 290	801	7S		
C works (contd) 7/	5. Constructing outlet No. II at 1800 ft in L. B.	~~204~~ 205				
	6. Constructing 12" Pipe sluice at 2200 ft	64				
	7. Constructing a 9" Pipe sluice at 2500 ft in L. B.	55				
	8. Do R. B.	55				
	9. Constructing a Tail Drop of 1 ft at 3000'.	60				
			~~724~~ 729.			
	Total i works			~~1525.~~ 1530		
	ii Establishment			~~350~~	~~1530~~	
	Grand Total				~~1875.~~	
	I Wks					
	II Staff				256	
					1786	

STATION, ____________ S.A.V.

Dated ____________ 190

5,000—12-12-01.

A V Raghunathan (signature)
Executive Engineer.
Madura (?)

5

(E. No. 126

———— CIRCLE.

DIVISION—

DISTRICT—

ESTIMATE FORM.—Abstract—Classified.

To accompany the Detailed Estimate No.
of 190 -190 for *

* Here enter the Name and Description of work in full.

Box 10
3356/05

9

tew
28/3/05

Current No. 1434

D.E.I.

E. I. Orders are requested if the estimate may be checked for Sanction.

LR
27.3.05

LWH
27/3/05

CEI

Yes please.

8S

[illegible]
27.3.05.

16/4
19/4/05

10

[E. I. Form No. 42—600—23-8-04.]

Public Works Department,

Irrigation Branch.

Current No. 1434 dated 27-3-05

Letter No. 220 CE

Dated 20/3/05

From The S.E. 6th circle (Mr. C.J. [illegible])

Prepared by [illegible] (Mr. W. [illegible])

NOTE by Technical Section.

Name of work. Regrading the distributary from the right sluice above drop No 4 in the 4th branch chl. Periyar Project

Amount of Estimate Rs. 1530.

Sheet 5 — 1. Enlarging the vent of the sluice at the head of the distributary.
The area of the existing vent 1'×1½' being inadequate it is proposed to increase it to 2'-3"×1½' to discharge the required supply with a head of 6". The proposed improvements on the right side are provided to suit the existing structure on the left side of the vent. Total area to be commanded = 390 acres. Sill of vent = 556.37

Sheet 6. — 2. Existing regulator at 150 ft for field chnl. A drop of 2 ft is proposed to be added across the main distributary sill of drop above = 555.62; floor in rear 553.62; The Estimate provides for cutstone coping & platform with regulating means for the sluice of the field distributary.

Sheet 7 — 3. Proposed Calingula at 1300 ft. Drainage area intercepted by the chnl = .147 sq mile. Disch due to 3" run off = 37.65 cft per sec. Length of calingulah = 14'-6" crest 6" below F.S.L. with top of damstones at F.S.L. Drystone in rear 4'-6" being inadequate has now been increased to 6 ft wide pending approval. A vent 3"×3" is allowed to command 9 acres.

Sheet No 8. — 4. Proposed calingulah at 1800 ft.
Drainage area = .193 sq mile. Disch = 75 cft per sec; length = 28 ft crest 6" below F.S.L. Top of damstones at F.S.L. A vent is allowed in the bodywall ~~to~~ command 48 acres.

Sheet 9 + 10 — <u>Cement pipe sluices</u>. 3 pipe sluices are provided along the distributary to command 128, 19.62 & 15.45 acres respectively.

Sheet 11 — <u>Tail drop</u>. Crest 551.36. Floor in rear = 550.34.
The designs call for no remarks.

Sheets 2 to 4. — <u>Chal</u>. The length of the distributary chal is 3100 ft ~~long~~. It will have bed width of 4 ft, depth of water at F.S.L. 1½ ft; fall 1 in 1250; top of banks 1½ ft above F.S.L. or 3 ft above bed. with top width 3 ft & slopes 1½ to 1.

The estimates and hydraulic particulars have been checked.

Rs 418 has been allowed for ~~land~~ compensation for land to be acquired for improving the chal. It is ~~does not at appear if that~~ not stated if the rates allowed, for the land in the estimate, have been fixed in consultation with the Revenue department. The amount, however being small may be approved.

LWH.

Hurd 19.4.05

Reo 19/4/05

12

P. Wcon-4256

Recd & Regd 2. 5. 05

Enclos. 11 others 11 plans 22

PUBLIC WORKS DEPARTMENT,

IRRIGATION BRANCH.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

18 P 11 S

READ the following

From the Supg. Engineer, VI Circle, dated 24-3-05 No. 220 C.E.
Classified Abstract estimate amounting Rs. 1,786.

Note by the Chief Engineer
for Irrigation.

----

5 P

The Supg. Engineer, VI Circle, submits an estimate amounting to Rs. 1,530 for regrading the distributary channel which takes off from the sluice on the right side above drop No. 4, in the 4th Branch channel, Periyar Project. It is reported that the ventway of the above sluice is insufficient for irrigating its ayacut of 390 acres and that there are many open cuts in the channel. In the absence therefore of proper means of regulation, the lands at the tail end do not receive an adequate supply. The proposed improvements include

(1) Increasing the ventway of the sluice from 1'x $1\frac{1}{2}$' to $2\frac{1}{4}$ x $1\frac{1}{2}$'

(2) Widening the channel up to 3,000 feet from the sluice.

(3) Substituting pipe sluices for the existing open cuts.

(4) Constructing 2 outlets at 1,300 & 1,800 feet of the channel.

(5) Improving the existing regulator in the field channel at 150 feet and providing the channel with a tail

2

13

tail drop in order to prevent the bed from scouring,

The estimate may be sanctioned.

2. The work is classed as "unremunerative" and will probably be completed by the 31st March 1906.

O r d e r thereon. 4182. d/ 3.5.05

The estimate amounting to Rs.1,786 including the charge for establishment for regrading the distributary channel taking off from the sluice on the right side above drop No. 4 in the 4th Branch channel, Periyar Project, is sanctioned.

2. This sanction is registered as No. 11 I of 1905-06 and will expire on the 31st March 1906.

3. Ordered that a copy of these Proceedings be forwarded to the Government of India for information.

(H.E. No dated)

No 4192. d/ 3.5.05

Endorsement.

F O R W A R D E D.

DESPATCHED 29 MAY 1905

Issue

27.4.05

26/4/05.

To

The Chief Engr. for Irrigation

" Supg. Engineer VI Circle

" Examiner P.W. Accounts.

DESPATCHED 25 MAY 1905

E. I. Form No 1—500—7-4-04.

12